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com.ibm.speech.net.www.protocol.https

Class HttpClient

java.lang.Object

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+--com.ibm.sslight.SSLContext

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+--com.ibm.speech.net.www.protocol.https.HttpClient

```

public class HttpClient
extends com.ibm.sslight.SSLContext

```

Inner classes inherited from class com.ibm.sslight.SSLContext

com.ibm.sslight.SSLContext.KeyConstraints

Field Summary

static int	<u>CONNECTED</u> Connection established.
static java.lang.String	<u>defaultKeyRingDatabase</u> Default key ring database.
static int	<u>defaultPort</u> Default port allocated for HTTPS provided by HTTP RFC.
static int	<u>NOT_CONNECTED</u> Connection not established.
static java.lang.String	<u>sslCertIssuerName</u> Certificate Issuer Name of SSL established connection.
static java.lang.String	<u>sslCertOrgName</u> Certificate's Organization Name of SSL established connection.
static java.lang.String	<u>sslCipherSuite</u> Cipher suite of SSL established connection.
static java.lang.String	<u>sslCompressMethod</u> Compression method of SSL established connection.
static java.net.InetAddress	<u>sslInetAddress</u> java.net.InetAddress of SSL established connection.
static int	<u>sslPort</u> Port of SSL established connection.

Fields inherited from class com.ibm.sslight.SSLContext

asyncConnections, CA, clientAuthentication, CONNECT, CONNECTION, debug, SESSION, SITE

Constructor Summary

HttpClient(java.net.URL u)

Creates a new HttpClient instance with the default debug flag.

HttpClient(java.net.URL u, boolean debug)

Creates a new HttpClient instance with a specified debug flag.

Method Summary

void	connect () Method that calls that sets up SSL connection.
void	connect (java.lang.String host, int port) Method that established SSL connection.
void	disconnect () Close the connection to the server.
java.lang.String	getHTTPHeader () Returns the header from the HTTP request.
java.io.InputStream	getInputStream () Returns a input stream that reads from this open connection.
java.io.OutputStream	getOutputStream () Returns a java.net.OutputStream that writes to this connection.
int	getState () Returns the current state of the connection.
protected boolean	handleCertificateChain (com.ibm.sslight.SSLCert[] chain) This method is called by SSL if a certificate chain has to be validated by the SSL protocol but that cannot be done based on the information stored in the public key ring associated with the context or there is no public key ring defined at all.
void	setAsyncConnections (boolean value) Sets the value of the asyncConnectionSet field for the HttpClient object to the specified value.
void	setEnabledCipherSuites (java.lang.String cipherSuites) Sets the value of the enabledCipherSuites field for the HttpClient object to the specified value.
void	setEnabledCompressionMethods (java.lang.String methods) Sets the value of the enabledCompressionMethods field for the HttpClient object to the specified value.
void	setKeyRingDatabase (java.lang.String name) Sets the value of the keyRingDatabase field for the HttpClient object to the specified value.
void	setRequestMethod (java.lang.String method) Sets the value of the method field for the HttpClient object to the specified value.

void	setRequestProperties (java.lang.String properties) Sets the value of the requestProperties field for the HttpClient object to the specified value.
void	setTimeout (int seconds) Sets the value of the timeout field for the HttpURLConnection object to the specified value.

Methods inherited from class com.ibm.sslight.SSLContext

allowStepUpCryptography, clone, confirmCertificateChain, confirmKeySelection, exportKeyRings, getEnabledCipherSuites, getEnabledCompressionMethods, getKeyRing, getSSLCertByLabel, getTimeout, handleCertificateChain, handleConnection, handleNoPeerCertificate, handleNoSiteCertificate, importCACertificates, importKeyRings, importKeyRings, importSiteCertificates, queryAcceptableKeys, restrictStepUpCryptography, setEnabledCipherSuites, setKeyRing, setTimeout

Methods inherited from class java.lang.Object

equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

sslPort

```
public static int sslPort
```

Port of SSL established connection.

sslInetAddress

```
public static java.net.InetAddress sslInetAddress
```

java.net.InetAddress of SSL established connection.

sslCompressMethod

```
public static java.lang.String sslCompressMethod
```

Compression method of SSL established connection.

sslCipherSuite

```
public static java.lang.String sslCipherSuite
```

Cipher suite of SSL established connection.

sslCertOrgName

```
public static java.lang.String sslCertOrgName
```

Certificate's Organization Name of SSL established connection.

sslCertIssuerName

```
public static java.lang.String sslCertIssuerName
```

Certificate Issuer Name of SSL established connection.

NOT_CONNECTED

```
public static final int NOT_CONNECTED
```

Connection not established.

CONNECTED

```
public static final int CONNECTED
```

Connection established.

defaultPort

```
public static final int defaultPort
```

Default port allocated for HTTPS provided by HTTP RFC.

defaultKeyRingDatabase

```
public static final java.lang.String defaultKeyRingDatabase
```

Default key ring database.

Constructor Detail

HttpClient

```
public HttpClient(java.net.URL u)
```

Creates a new `HttpClient` instance with the default debug flag.

Parameters:

`u` - the `java.net.URL` associated with the connection.

HttpClient

```
public HttpClient(java.net.URL u,
                  boolean debug)
```

Creates a new `HttpsURLConnection` instance with a specified debug flag.

Parameters:

`u` - the `java.net.URL` associated with the connection.

`dbg` - the boolean value of turning the debug option ON/OFF.

Method Detail

handleCertificateChain

```
protected boolean handleCertificateChain(com.ibm.sslight.SSLCert[] chain)
```

This method is called by SSL if a certificate chain has to be validated by the SSL protocol but that cannot be done based on the information stored in the public key ring associated with the context or there is no public key ring defined at all. It can be overridden in a subclass of `SSLContext`. If not redefined, this method returns false, which means the certificate chain is not verified. In that case the connection establishment is aborted.

Parameters:

`chain` - the `SSLCert[]` associated with the connection. `x509chain` - the chain of X509.v3 certificates, ordered with the sender's certificate first and the root certificate authority last. `correlator` - used by the application to associate the handshake with some application defined Object. This is the same correlator that was used on the `SSLSocket` constructor or the "accept" for the `SSLServerSocket`, depending on whether the current role is client or server.

getInputStream

```
public java.io.InputStream getInputStream()
                           throws java.io.IOException
```

Returns an input stream that reads from this open connection.

Returns:

an `java.io.InputStream` that reads from this open connection.

Throws:

`java.io.IOException` - if an I/O error occurs while creating the input stream.

getOutputStream

```
public java.io.OutputStream getOutputStream()
                           throws java.io.IOException
```

Returns a java.net.OutputStream that writes to this connection.

Returns:

an output stream that writes to this connection.

Throws:

java.io.IOException - if an I/O error occurs while creating the output stream.

connect

```
public void connect()
```

Method that calls that sets up SSL connection.

connect

```
public void connect(java.lang.String host,
                    int port)
    throws java.io.IOException
```

Method that established SSL connection.

Parameters:

host - the host to request a connection from.

port - the port the requested server is listening on.

Throws:

IOException - if an error occurs while establishing the connection.

disconnect

```
public void disconnect()
```

Close the connection to the server.

getState

```
public int getState()
```

Returns the current state of the connection.

Returns:

int the state of the connection 1 if connected, 0 otherwise.

getHTTPHeader

```
public java.lang.String getHTTPHeader()
```

Returns the header from the HTTP request.

Returns:

String the header stripped from the connection's java.net.InputStream.

setRequestMethod

```
public void setRequestMethod(java.lang.String method)
```

Sets the value of the `method` field for the `HttpClient` object to the specified value.

Parameters:

`name` - the new value.

setRequestProperties

```
public void setRequestProperties(java.lang.String properties)
```

Sets the value of the `requestProperties` field for the `HttpClient` object to the specified value.

Parameters:

`name` - the new value.

setKeyRingDatabase

```
public void setKeyRingDatabase(java.lang.String name)
```

Sets the value of the `keyRingDatabase` field for the `HttpClient` object to the specified value.

Parameters:

`name` - the new value.

setTimeout

```
public void setTimeout(int seconds)
```

Sets the value of the `timeout` field for the `HttpsURLConnection` object to the specified value.

Parameters:

`seconds` - the new value.

setAsyncConnections

```
public void setAsyncConnections(boolean value)
```

Sets the value of the `asyncConnectionSet` field for the `HttpClient` object to the specified value.

Parameters:

`value` - the new value.

setEnabledCompressionMethods

```
public void setEnabledCompressionMethods(java.lang.String methods)
```

Sets the value of the `enabledCompressionMethods` field for the `HttpClient` object to the specified value.

Overrides:

`setEnabledCompressionMethods` in class `com.ibm.sslight.SSLContext`

Parameters:

`methods` - the new value.

setEnabledCipherSuites

```
public void setEnabledCipherSuites(java.lang.String cipherSuites)
```

Sets the value of the `enabledCipherSuites` field for the `HttpsURLConnection` object to the specified value.

Parameters:

`cipherSuites` - the new value.

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